

WHAT IS CLAIMED IS:

1. A method of synchronizing databases of a plurality of monitoring devices in a communications system having a communications device, a first monitoring device and a second monitoring device for monitoring the communications device and a network connecting these devices, in which each of the monitoring devices accommodates a database, comprising:

a first step of transmitting, by the first monitoring device, a control command with a network address of the first monitoring device to the communications device;

a second step of transmitting, by the communications device, the network address of the first monitoring device received from the first monitoring device to the second monitoring device;

a third step of updating, by the first monitoring device, registered data recorded in the database accommodated by the first monitoring device; and

a fourth step of transmitting, by the second monitoring device, a read-out request for reading out registered data which is altered by the updating operation and recorded in the database accommodated by the first monitoring device to the first monitoring device by using the network address of the first monitoring device received from the communications device, and wherein when the second monitoring device receives the registered data altered by the updating operation from the first monitoring device, the second

monitoring device updates registered data recorded in the database accommodated by the second monitoring device based on the registered data received from the first monitoring device.

2. A method of synchronizing databases of a plurality of monitoring devices according to Claim 1, further comprising:

a fifth step of performing control by the communications device, based on the control command received from the first monitoring device, and transmitting, by the communications device, the controlled result to the first monitoring device, wherein the third step, when the first monitoring device receives the controlled result from the communications device, the first monitoring device updates registered data recorded in the database accommodated by the first monitoring device.

3. A method of synchronizing databases of a plurality of monitoring devices according to Claim 1 or 2, further comprising:

a sixth step of receiving, by the first monitoring device, a control request for controlling the communications device from an operator; wherein the first step, when the first monitoring device receives the control request from the operator, the first monitoring device transmits the control command with a network address of the first monitoring device to the communications device.

4. A method of synchronizing databases of a plurality of monitoring devices according to any of Claims 1 through 3, wherein the registered data is physical data.

5. A method of synchronizing databases of a plurality of monitoring devices according to Claim 4, wherein the physical data is data being managed inside the communications device, such as settings for operations of the communications device.

6. A method of synchronizing databases of a plurality of monitoring devices according to Claim 1, further comprising:

a seventh step of receiving, by the first monitoring device, a request for altering the database accommodated by the first monitoring device which does not control the communication device from the operator;

wherein the first step, when the first monitoring device receives the request which does not control the communication device from the operator, the first monitoring device transmits a dummy control command with a network address of the first monitoring device to the communications device.

7. A method of synchronizing databases of a plurality of monitoring devices according to Claim 1, wherein the first step, the first monitoring device transmits to the communications device the control command with the network address of the first monitoring device and a altered data specification data to specify registered data which is altered by the updating operation and recorded in the database accommodated by the first monitoring device; wherein the second step, the communication device transmits to the second monitoring device the network address of the first monitoring device

and the altered data specification data which are received from the first monitoring device; wherein the fourth step, the second monitoring device transmits to the first monitoring device the read-out request with the altered data specification data received from the communications device, when the second monitoring device receives registered data specified by the altered data specification data from the first monitoring device, the second monitoring device updates the registered data recorded in the database accommodated by the second monitoring device based on the registered data which is specified by the altered data specification data and received from the first monitoring device.

8. A method of synchronizing databases of a plurality of monitoring devices according to Claim 7, wherein the altered data specification data is a control number.

9. A method of synchronizing databases of a plurality of monitoring devices in a communications system having a communications device, a first monitoring device and a second monitoring device for monitoring the communications device and a network connecting these devices, and in which the communications device retains a network address of the second monitoring device and each of the monitoring devices accommodates a database, comprising a step of:

transmitting, by the first monitoring device, a request for reading the network address of the second monitoring device to the

communications device;

transmitting, by the first monitoring device, a request for reading registered data which is altered by a updating operation and recorded in the database accommodated by the second monitoring device to the second monitoring device by using the network address of the second monitoring device received from the communications device, when the first monitoring device receives the network address of the second monitoring device from the communications device;

updating, by the first monitoring device, registered data recorded in the database accommodated by the first monitoring device based on the registered data received from the second monitoring device, when the first monitoring device receives the registered data which is altered by the updating operation and recorded in the database accommodated by the second monitoring device from the second monitoring device.

10. A method of synchronizing databases of a plurality of monitoring devices in a communications system having a first communications device and a second communications device, a first monitoring device for monitoring these communications devices and a network connecting these devices, and in which the first communications device retains a network address of the first monitoring device, and the first monitoring device accommodates a database storing data relevant to the second communications device, comprising a step of:

transmitting, by a second monitoring device, a request for reading the network address of the first monitoring device to the first communication device, when the second monitoring device is newly connected to the network;

transmitting, by a second monitoring device, to the first monitoring device a request for reading data relevant to the second communications device which is recorded in the database accommodated by the first monitoring device , by using the network address of the first monitoring device received from the first communication device, when the second monitoring device receives the network address of the first monitoring device from the first communications device;

recording, by the second monitoring device, the data relevant to the second communications device received from the first monitoring device in a database accommodated by the second monitoring device, when the second monitoring device receives the data relevant to the second communications device from the first monitoring device.

11. A system of synchronizing databases of a plurality of monitoring devices in a communications system having a communications device, a first monitoring device and a second monitoring device for monitoring the communications device and a network connecting these devices, in which each of the monitoring devices accommodates a database, comprising:

a control command transmitting unit transmitting a control

command with a network address of the first monitoring device from the first monitoring device to the communications device;

an address transmitting unit transmitting the network address of the first monitoring device received from the first monitoring device from the communications device to the second monitoring device;

a first database updating unit updating registered data recorded in the database accommodated by the first monitoring device;

a request transmitting unit transmitting a read-out request for reading out registered data which is altered by the updating operation and recorded in the database accommodated by the first monitoring from the second monitoring device to the first monitoring device, by using the network address of the first monitoring device received from the communications device; and

a second database updating unit updating registered data recorded in the database accommodated by the second monitoring device based on the registered data received from the first monitoring device, when the second monitoring device receives the registered data altered by the updating operation from the first monitoring device.

12. A system of synchronizing databases of a plurality of monitoring devices according to Claim 11, further comprising:

a controlled result transmitting unit transmitting a result controlled by the communications device based on the control command

received from the first monitoring device from the communications device to the first monitoring device; and

wherein the first database updating unit updates registered data recorded in the database accommodated by the first monitoring device, when the first monitoring device receives the controlled result from the communications device.

13. A system of synchronizing databases of a plurality of monitoring devices according to Claim 11 or 12, further comprising:

a control request receiving unit receiving a request for controlling the communications device from an operator; and

wherein the control command transmitting unit transmits the control command with a network address of the first monitoring device from the first monitoring device to the communications device, when the first monitoring device receives the control request from the operator.

14. A system of synchronizing databases of a plurality of monitoring devices according to Claim 10, further comprising:

an alteration request receiving unit receiving a request for altering the database accommodated by the first monitoring device which does not control the communications device from the operator;

wherein the control command transmitting unit transmits a dummy control command with a network address of the first monitoring device from the first monitoring device to the communications device, when the first monitoring device receives the alteration request which



does not control the communications device from the operator.

15. A system of synchronizing databases of a plurality of monitoring devices according to Claim 10, wherein the control command transmitting unit transmits from the first monitoring device to the communications device the control command with the network address of the first monitoring device and a altered data specification data to specify registered data which is altered by the updating operation and recorded in the database accommodated by the first monitoring device;

wherein the address transmitting unit transmits from the communications device to the second monitoring device the network address of the first monitoring device and the altered data specification data which are received from the first monitoring device;

wherein the request transmitting unit transmits from the second monitoring device to the first monitoring device the read-out request with the altered data specification data received from the communications device, when the second monitoring device receives registered data specified by the altered data specification data from the first monitoring device, the second monitoring device updates the registered data recorded in the database accommodated by the second monitoring device based on the registered data which is specified by the altered data specification data and received from the first monitoring device.

16. A system of synchronizing databases of a plurality of monitoring devices in a communications system having a communications device, a first monitoring device and a second monitoring device for monitoring the communications device and a network connecting these devices, and in which the communications device retains a network address of the second monitoring device and each of the monitoring devices accommodates a database, comprising:

an address read-out request transmitting unit transmitting from the first monitoring device to the communications device a request for reading the network address of the second monitoring device;

an altered data read-out request transmitting unit transmitting from the first monitoring device to the second monitoring device a request for reading registered data which is altered by a updating operation and recorded in the database accommodated by the second monitoring device by using the network address of second monitoring device received from the communications device, when the first monitoring device receives the network address of the second monitoring device from the communications device;

a database updating unit updating registered data recorded in the database accommodated by the first monitoring device based on the registered data received from the second monitoring device, when the first monitoring device receives the registered data which

is altered by the updating operation and recorded in the database accommodated by the second monitoring device from the second monitoring device.

17. A system of synchronizing databases of a plurality of monitoring devices in a communications system having a first communications device and a second communications device, a first monitoring device for monitoring these communications devices and a network connecting these devices, and in which the first communications device retains a network address of the first monitoring device, and the first monitoring device accommodates a database storing data relevant to the second communications device, comprising:

an address read-out request transmitting unit transmitting from a second monitoring device to the first communication device a request for reading the network address of the first monitoring device, when the second monitoring device is newly connected to the network;

a read-out request transmitting unit transmitting from a second monitoring device to the first monitoring device a request for reading data relevant to the second communications device which is recorded in the database accommodated by the first monitoring device, by using the network address of the first monitoring device received from the first communication device, when the second monitoring device receives the network address of the first

monitoring device from the first communications device;

recording unit recording the data relevant to the second communications device received from the first monitoring device in a database accommodated by the second monitoring device, when the second monitoring device receives the data relevant to the second communications device from the first monitoring device.

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